

**IN THE CLAIMS:**

Please amend the claims as follows:

1. **(Currently Amended)** An electromagnetic fuel injection valve comprising; in which

a valve member (20) is contained in a valve housing (8) comprising a magnetic cylinder (9) coaxially coupled at a front end thereof to a valve seat member (10) having a valve seat (13), said valve member (20) being spring-biased in a direction in which said valve member (20) is seated on said valve seat (13), wherein an outer diameter of said magnetic cylinder and an outer diameter of said valve seat member are equal to each other;

a non-magnetic cylinder (26) serving as a member different from said magnetic cylinder (9) is coaxially coupled at a front end thereof to a rear end of the magnetic cylinder (9) to surround a portion of a movable core (18) which is coaxially connected to said valve member (20) with a rear end face thereof serving as a movable attraction face (41); and

a front portion of a stationary core (22) having a front portion that includes a front end face serving as a stationary attraction face (42) is fitted into and fixed in a rear portion of said non-magnetic cylinder (26), so that said stationary attraction face (42) is opposed to said movable attraction face (41), characterized in that

wherein the front portion of said stationary core (22) is fitted and fixed in said non-magnetic cylinder (26) so as to be in close contact with an inner surface of an intermediate portion of said non-magnetic cylinder (26) in a region corresponding to said stationary attraction face (42); and

in the inner peripheral surface of said non-magnetic cylinder (26) an annular recess (44) having a flat portion (44a) flush connected to in communication with said stationary attraction face; (42) is provided to form

an annular chamber (45) between said annular recess (44) and an outer periphery of the rear portion of said movable core (18), and in the inner peripheral surface of said non-magnetic cylinder; (26),

a center bore (46) having an inside diameter larger than an outside diameter of said stationary attraction face (42) is further provided defined by the inner peripheral surface of said non-magnetic cylinder and in communication with at a location in front of said annular recess; and (44),

a guide bore (17) is provided in defined by an inner periphery of said magnetic cylinder (9) and flush connected to in communication with said center bore (46) of the non-magnetic cylinder (26), and

wherein said annular chamber (45) is formed defined by continuously connecting said flat portion (44a) of said annular recess (44) and being connected to said center bore (46) and guide bore (17) by means of an inclined surface and by an area between said annular recess, an outer periphery of said movable core, and an inner peripheral surface of said non-magnetic cylinder.

2. **(Currently Amended)[:] An electromagnetic fuel injection valve according to claim 1, wherein a guide portion (47) is integrally provided on said movable core (18) having at a rear end face thereof said movable attraction face (41) having an outside diameter substantially equal to that of said stationary attraction face**

(42) to overhang sideways from the outer periphery of said movable attraction face (41), so that wherein said guide portion (47) is slidably fitted in said guide bore (17).

3. **(Currently Amended)[:] A process for producing an electromagnetic fuel injection valve according to claim 1, comprising the following steps:**

a step of preparing a cylindrical magnetic cylinder blank (9') and a non-magnetic cylinder blank (26') for forming said magnetic cylinder (9) and said non-magnetic cylinder (26), respectively, as well as a stationary core blank (22') having a chamfer (48) around the outer periphery at a front end thereof for forming said stationary core (22);

a step of fixing said stationary core blank (22') to said non-magnetic cylinder blank (26') in a state in which a front portion of said stationary core blank (22') has been fitted so as to be in close contact with an inner surface of an intermediate portion of said non-magnetic cylinder blank (26') coaxially coupled to said magnetic cylinder blank (9'); and

a step of grinding the front portion of said stationary core blank (22') so as to remove said chamfer (48), thereby forming and form a flat stationary attraction face (42), and subjecting inner peripheries of said non-magnetic cylinder blank (26') and said magnetic cylinder blank (9') to a grinding to form said annular recess (44), said center bore (46) and said guide bore (14), the above steps being carried out sequentially.

4. **(New) An electromagnetic fuel injection valve according to claim 1, wherein said annular chamber is further defined by a space provided between said stationary and fixed attraction faces.**

5. (New) An electromagnetic fuel injection valve according to claim 1, wherein said movable attraction face is defined by a flat abutment face in communication with a slanted face extending away from said flat abutment face.